

Claims

1. A refrigerator unit for container (1), comprising:

a ventilation unit (4) configured to ventilate the air of the interior IS of a container C;

5 an acquisition unit (5) configured to acquire ventilation data related to the quantity of air ventilated by the ventilation unit (4); and

a recording unit (75) configured to record the ventilation data acquired by the acquisition unit (5).

2. The refrigerator unit for container (1) in accordance with claim 1, further
10 equipped with a first output unit (76, 78) configured to output the quantity of air ventilated by the ventilation unit (4) based on the ventilation data recorded by the recording unit (75).

3. The refrigerator unit for container (1) in accordance with claim 1, further
equipped with a second output unit (76, 78) configured to output the ventilation data
15 recorded by the recording unit (75).

4. The refrigerator unit for container (1) in accordance with any one of the claims 1 to 3, wherein

the ventilation unit (4) has a ventilation passage (40) through which the
ventilated air passes and an opening/closing member (41, 48) configured to open and
20 close the ventilation passage 40; and

the ventilation data includes opening degree data indicating the degree to which
the opening/closing member (41, 48) has opened the ventilation passage (40).

5. The refrigerator unit for container (1) in accordance with claim 4, wherein the
opening/closing member (41, 48) is configured to open and close the ventilation passage
25 (40) by being moved in a manual fashion.

6. The refrigerator unit for container (1) in accordance with claim 4 or 5, wherein
the acquisition unit (5) has an opening degree detecting means (50, 66, 67) configured to
detect the opening degree based on the amount of movement of the opening/closing
member (41).

7. The refrigerator unit for container (1) in accordance with claim 6, wherein the acquisition unit (5) further has a transmitting means (51, 55, 57-59) configured to transmit the movement amount of the opening/closing member (41, 48) to the opening degree detecting means (50).
- 5 8. The refrigerator unit for container (1) in accordance with claim 7,
further equipped with a thermally insulated wall (26) made of a thermal insulation material and arranged and configured to separate the interior (IS) and exterior of the container (C); and
the transmitting means (51) being imbedded in the thermally insulated wall (26).
- 10 9. The refrigerator unit for container (1) in accordance with claim 7 or 8, further provided with
a temperature detecting means (61) configured to detect the ambient temperature surrounding the transmitting means (51); and
a correction unit (74) configured to correct the movement amount of the
15 opening/closing member (41, 48) transmitted by the transmitting means (51) based on the ambient temperature.
10. The refrigerator unit for container (1) in accordance with any one of claims 4 to 9, wherein the recording unit (75) is configured to record ventilation data when the opening degree of the opening/closing member (41, 48) is changed.
- 20 11. The refrigerator unit for container (1) in accordance with any one of claims 1 to 10, wherein the recording unit (75) is configured to record ventilation data when the refrigerator unit for container starts running.
12. The refrigerator unit for container (1) in accordance with any one of the claims 1 to 11, wherein the recording unit (75) is configured to record ventilation data each time a
25 specific amount of time elapses or at a specific time of day.
13. The refrigerator unit for container (1) in accordance with any one of claims 1 to 3, wherein
the ventilation unit (4) has a ventilation passage (40) through which the ventilated air passes and an air speed detecting means (63) configured and arranged to

detect the speed of the air passing through the ventilation passage (40); and

the ventilation data includes the air speed data detected by the air speed detecting means (63).

14. The refrigerator unit for container (1) in accordance with any one of claims 1 to 3, wherein

the ventilation unit (4) has a ventilation passage (40) through which the ventilated air passes and a blower device (47) configured to generate a flow of air that is ventilated through the ventilation passage (40); and

the ventilation data includes output data from the blower device (47).

15. The refrigerator unit for container (1) in accordance with any one of claims 1 to 3, wherein

the ventilation unit (4) has a ventilation passage (40) through which the ventilated air passes and a pressure detecting means (64, 65) configured and arranged to detect the pressure difference between the inlet and outlet of the ventilation passage (40);

and

the ventilation data includes the pressure difference data detected by the pressure detecting means (64, 65).

16. The refrigerator unit for container (1) in accordance with any one of claims 1 to 3, wherein the ventilation data includes freight quantity data related to the quantity of freight loaded in the container (C).

17. The refrigerator unit for container (1) in accordance with any one of claims 1 to 16, wherein

the ventilation data is data that indirectly indicates the quantity of air ventilated by the ventilation unit (4); and

a conversion unit (73) configured to convert the ventilation data into a quantity of air is further provided.

18. The refrigerator unit for container (1) in accordance with claim 17, wherein the conversion unit (73) has a plurality of different converting means (F1, F2) adapted to different ventilation unit (4) configurations.